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**Name of Organization:** University of Wisconsin-Extension

**Type of Organization:** College or University

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**Project Title:** Developing a P2 Methodology for PBT Reduction

**Project Category:** Pollution Prevention and Reduction - BNS

**Rank by Organization (if applicable):** 0

**Total Funding Requested (\$):** 69,575 **Project Duration:** 1 Years

**Abstract:**

Persistent, bio-accumulative and toxic chemicals (PBT) are a recognized threat to the Great Lakes region. To prevent future releases, industry needs to be able to cheaply identify known and potential PBTs at the product development stage so that new formulations or restricted uses can be formulated before products are developed for general commerce. EPA is currently developing a PBT screening tool to alert users that a chemical is or has the potential to be a PBT. This program is designed to help promote and instruct chemical formulators or high volume users in the use of EPA's PBT profiler in Wisconsin's manufacturing sector. If successful, this program can be duplicated in other states, and SHWEC's involvement in national efforts can insure that this happens.

**Geographic Areas Affected by the Project****States:**

<input type="checkbox"/> Illinois	<input type="checkbox"/> New York
<input type="checkbox"/> Indiana	<input type="checkbox"/> Pennsylvania
<input type="checkbox"/> Michigan	<input checked="" type="checkbox"/> Wisconsin
<input type="checkbox"/> Minnesota	<input type="checkbox"/> Ohio

**Lakes:**

<input checked="" type="checkbox"/> Superior	<input type="checkbox"/> Erie
<input type="checkbox"/> Huron	<input type="checkbox"/> Ontario
<input checked="" type="checkbox"/> Michigan	<input type="checkbox"/> All Lakes

**Geographic Initiatives:**

<input type="checkbox"/> Greater Chicago	<input type="checkbox"/> NE Ohio	<input type="checkbox"/> NW Indiana	<input type="checkbox"/> SE Michigan	<input type="checkbox"/> Lake St. Clair
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**Primary Affected Area of Concern:** Milwaukee Estuary, WI**Other Affected Areas of Concern:** Fox River/Green Bay, WI***For Habitat Projects Only:*****Primary Affected Biodiversity Investment Area:****Other Affected Biodiversity Investment Areas:****Problem Statement:**

The US-EPA has a new initiative targeting persistent, bio-accumulative and toxic chemicals (PBTs). Wisconsin was one of the first states to invite EPA to make a presentation on the PBT profiler to a small group of manufacturers in February of 2000. The PBT issue is not new in the Great Lakes region. Several PBT's have been targeted in the Great Lakes for some time now. However, there is much more work to be done to move industry away from the use of these listed PBT's in the Great Lakes Region, much less to avoid introducing other unknown or unlisted PBT chemicals from entering the environment.

This project is designed to help companies identify known and likely PBT chemicals early in the product development or selection stage so that alternatives can be sought, or uses restricted to prevent PBTs from getting into the environment. The tremendous costs to remove PBTs from the environment are a great incentive to industry to keep them out of their products in the first place. The PBT profiler allows companies to cheaply screen chemicals that either are or could be the next important PBT chemical. Unlike tests that cost thousands of dollars and take months or years to perform, the PBT profiler can be used in minutes for free. Thus, companies can cost effectively screen chemicals at the very beginning of the process of developing new products, and make changes before extensive investment has already been made.

The project will target the nearly 400 chemical formulators (manufacturing facilities with primary or secondary SIC codes in the 2800-2899 range) to promote the use of screening tools as they are developing or selecting new products.

**EXPANDED PROJECT**

At this time other Great Lakes States and EPA Region 5 are interested in taking this type of program throughout the region. We are looking into coordinating this program with other states but at this time can not predict which states will want to work with us and in what manner. For the final proposal we will investigate working with Minnesota, Illinois, Michigan, Indiana and Ohio. SHWEC has contacts with regulatory agencies and P2 providers in all of these states that would be potential partners.

If the project were expanded to the entire region 5, I would seek additional funding (~\$5,000) for supplies and travel from EPA Region 5 and some additional funding from ChemAlliance. Estimated additional costs would be \$30,000 for personnel, \$11,000 fringe and \$6,000 indirect.

Additional outcomes for the expanded project could include seminars in Duluth, Chicago/Gary, Toledo, Cleveland and 3 or 4 sites in Michigan. Other possible outcomes would be to provide training in assessing chemical facilities to pollution prevention people in other states (this training course has already been developed). We would also look for opportunities to do additional assessments on facilities in other states.

**Proposed Work Outcome:**

- 1) Get complete training in PBT profiler and other tools from the EPA Office of Pollution Prevention and Toxics to be able to

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provide state level resources.

2) Hold 3-5 seminars to industry on the PBT profiler in Wisconsin, including Madison, Milwaukee and Green Bay.

3) Provide direct on-site assistance to 10-20 small manufacturers (less than 100 employees) that includes a complete waste assessment as well as evaluation of products with the PBT Profiler.

4) Follow-up after 6 months to evaluate who is using the profiler, what decisions have been influenced by it's use, and other outcomes from the seminars or on-site assistance.

**Project Milestones:****Dates:**

Project Start

07/2000

Seminars on PBT Profiler to Industry

09/2000

Work with individual companies

01/2001

Presentation to GLPPR

03/2001

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Evaluation &amp; Follow Up

05/2001

Project End

06/2001



Project Addresses Environmental Justice

**If So, Description of How:**

Project Addresses Education/Outreach

**If So, Description of How:**

This project is designed to promote and instruction in the use of EPA's PBT profiler. 3-5 seminars will be given throughout the state on the PBT profiler and other PBT issues to make companies aware of tools that are available and the issues involved in the use of PBT chemicals. The target audience are chemical formulators and large scale industrial chemical users. Through the use of the PBT profiler it is hoped that use of known and potential PBT chemicals will be reduced or eliminated.

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**Project Budget:**

	<b>Federal Share Requested (\$)</b>	<b>Applicant's Share (\$)</b>
<b>Personnel:</b>	40,000	4,000
<b>Fringe:</b>	13,000	0
<b>Travel:</b>	2,000	0
<b>Equipment:</b>	2,500	0
<b>Supplies:</b>	3,000	0
<b>Contracts:</b>	0	0
<b>Construction:</b>	0	0
<b>Other:</b>	0	0
<b>Total Direct Costs:</b>	60,500	4,000
<b>Indirect Costs:</b>	9,075	0
<b>Total:</b>	69,575	4,000
<b>Projected Income:</b>	0	0

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**Funding by Other Organizations (Names, Amounts, Description of Commitments):**

US EPA Region 5 has expressed interest in promoting the use of the PBT profiler in the region. Funds from EPA Region 5 will be used to promote the project in other states.

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**Description of Collaboration/Community Based Support:**

ChemAlliance - SHWEC is part of the national chemical sector compliance assistance program, ChemAlliance. ChemAlliance will be used to help promote the PBT profiler and other EPA chemical evaluation tools to the chemical industry nation wide.

US EPA - The EPA office of Toxics has developed and will continue to develop the PBT profiler and other chemical evaluation tools, and distribute them for free nationwide.

US EPA Region 5 - Phil Kaplan, the director for Pollution Prevention in Region 5 attended an initial PBT profiler Training in Milwaukee in February of 2000. SHWEC will be in close contact with Mr. Kaplan so that the program could be easily duplicated in other states.

Wisconsin DNR - The DNR has a chemical sector specialist (Scott Lee) who has worked with us in the past on outreach projects to the chemical industry. They can be called upon for additional logistical support for this project.

S.C. Johnson Wax Company - S.C. Johnson is one of the companies that has worked closely with EPA in the development of the PBT profiler. They can be called upon to testify to the usefulness of this approach to chemical companies.